

2.4GHz Band PCB Antenna

Part Number: PIOV.00M.NRA.A

Features and Benefits

Balanced antenna with independent ground

Compact 40mm by 11mm size

85% antenna efficiency for 2.4GHz band antenna

Application

- Telecommunications/Networking
(Wi-Fi devices, Wireless LAN (WLAN))
- Industrial applications (Machine to machine
(M2M) communication, etc.)
- Consumer electronics (CE) applications
(Cameras, Mobile gaming devices, etc.)
- Medical
(Telemedicine and telehealth device, etc.)
- Automotive applications



Automotive

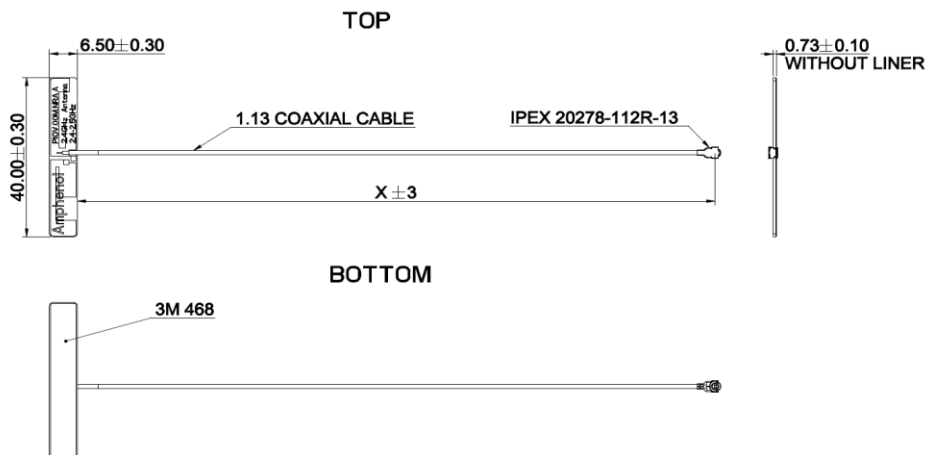


Consumer Electronics



Medical

Product Drawing



Specifications

Band (GHz)	2.4	2.48
Return loss (dB)	-13.2	-15.0
Efficiency	84%	86%
Peak gain (dBi)	2.9	2.8
VSWR	≤ 1.6	
Impedance	50 ohms	
Polarization	Linear	
Radiation Pattern	Omni-directional	
Test environment	Antenna on 1.5mm thicker plastic carrier in free space	
Power handled	5W	
Dimensions	40*11*0.8mm	
Operation temperature	-40°C ~ +85°C	
Storage temperature	-40°C ~ +85°C	
Weight	0.31 g	
Connector	IPEX MHF	
Cable standard	1.13 coaxial cable, length X (Std.: 150mm)	
RoHS compliant	Yes	
Adhesive	3M 468	

Signal attenuation along cable effect on antenna efficiency

Part Number	Coaxial cable length (mm)	Frequency (GHz)	Peak gain (dBi)	Total efficiency
PIOV.00M.NRA.A-050	50	2.4	3.1	88%
		2.48	3	90%
PIOV.00M.NRA.A-100	100	2.4	3	86%
		2.48	2.9	88%
PIOV.00M.NRA.A-150	150	2.4	2.9	84%
		2.48	2.8	86%
PIOV.00M.NRA.A-200	200	2.4	2.8	82%
		2.48	2.7	84%